Excellent productivity at harvest time.

A combine harvester can perform several steps in a single operation, and the electrohydraulic control system should do the same, controlling the individual functions simultaneously and according the needs. But HAWE systems offer more than just superb functionality – thanks to state-of-the-art sensor technology the driver can also easily operate it from the cab.
At harvest time, when the weather is good, you will see large combine harvesters moving systematically through the fields, hectare after hectare, hour after hour – it’s a tough job with only short breaks for both driver and machine. This is exactly why the driver needs the vehicle’s components to keep performing reliably and efficiently until the harvest is complete. HAWE’s hydraulic system is active from the moment the combine harvester enters the field, as it performs the following tasks:

- Ensuring that the cutter bar follows the contour of the ground
- Levelling the cab on uneven terrain
- Adjusting speed and pressure during cutting, reeling and threshing
- Precisely lowering the drain tube.

Whether it’s grain, corn, rapeseed or beans, every crop requires its own head. We provide you with flexible hydraulic controls so you can easily integrate additional functions into the valve segment, and build a compact control system. The most efficient way to adjust the engine speeds of cutters, reels and augers is by using piston pumps, which work seamlessly together with the hydraulic controls. Saving space is also a key function of all our products, so when you want to retract the cutter bar in preparation for road travel, the HAWE modular system offers the ideal solution. Because they are made from steel, we offer the most compact valve controls and extremely small but powerful pumps – see for yourself!

HAWE Hydraulik is the perfect partner for agricultural and forestry machinery. We offer fully integrated solutions at every stage from designs and manufacture through to the start of operations, drawing on over 60 years’ experience. As such, you can enjoy high efficiency combined with excellent flexibility.
The perfect choice for your harvester.

HAWE Hydraulik offers reliable, durable products with state-of-the-art design. The sophisticated modular system enables you to combine the elements you need in the most effective, cost-efficient way for minimum overall weight. A selection from our product range:

### One directional valve type for all functions:

Requiring little space and minimal effort to install, the proportional directional spool valve type PSL is a state-of-the-art and economical control solution that can be used to combine up to 10 functions. Additional functions can be directly integrated into the valve section.

- Operating pressure ($p_{\text{max}}$): 420 bar
- Flow rate ($Q_{\text{max}}$): 210 lpm

### Smart communications between components:

The PSL's on-board CAN technology minimizes the amount of wiring required and makes it easier to design smart systems. As you would expect, it supports all common communication protocols.

- Operating pressure ($p_{\text{max}}$): 420 bar
- Flow rate ($Q_{\text{max}}$): 120 lpm

### Efficient hydraulic fluid supply:

The energy-efficient axial piston pump type V60N generates the necessary pressure and flow rate, continually adapting these to the current requirements. Various nominal sizes, controls and drive options offer maximum flexibility while minimizing space requirements.

- Operating pressure ($p_{\text{max}}$): 400 bar
- Geometric displacement ($V_{g}$): 130 cm³/rev.

### Optimal drive:

The axial piston motors with fixed displacement are designed as bent-axes motors. This provides a compact design with few moving parts, low bearing loads high reliability and high overall efficiency. Spherical pistons arranged at 40° ensure an efficient motor as well as a high starting torque.

- Operating pressure ($p_{\text{max}}$): 400 bar
- Geometric displacement ($V_{g}$): 108 cm³/rev.

### Mobile and flexible – our electronic control:

Ideally suited to the hydraulic components, the PLVC operates and carries out signal evaluation for all functions. It is linked to the vehicle controls by a CAN bus, and can also send telemetry data to maintenance technicians remotely.
End-to-end service.

With three sales offices in the U.S., subsidiaries and expert partner companies throughout North America, HAWE Hydraulik is bound to have a presence in your area.

HAWE Hydraulik offers the following benefits:

■ Comprehensive individual advice and assistance
■ Customized solutions
■ Products designed and manufactured using state-of-the-art technology
■ Many years of experience and expertise in hydraulic products and their uses
■ Tailored service and maintenance contracts
■ Layout, set-up, and maintenance/service on-site

If you have any questions, please get in touch. Our experts are always happy to help.

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